FIG.1.

BLG promoter 4.2kb
BLG exon 1
Lysoz exon 1
Lysoz exon 2
Lysoz exon 3
Lysoz exon 4
C terminal extension
BLG exon 6
BLG exon 7
polyA
Human lysozyme 4.8kb
BLG 3' 2.5kb
1kb
Insulator 0.24 kb
Linker arm
CNBr cleavage
Calcitonin
Amidation signal
Normal lysozyme C-terminal

FIG.2.

AAGCTTGCATGCCTGCAGGTCGACCTGCAGGTCAACGGATCTCTGTGTCTGTTTTCATGTTAGTACCACACTGTTTTGGTGGCTGTAGCTTTCAGCTACA 100
GTCTGAAGTCATAAAGCCTGGTACCTCCAGCTCTGTTCTCTCTCAAGATTGTGTTCTGCTGTTTGGGTCTTTAGTGTCTCCACACAATTTTTAGAATTGT 200
TTGTTCTAGTTCTGTGAAAAATGATGCTGGTATTTTGATAAGGATTGCATTGAATCTGTAAAGCTACAGATATAGTCATTGGGTAGTACAGTCACTTTAA 300
CAATATTAACTCTTCACATCTGTGAGCATGATATATTTTCCCCCTCTATATCATCTTCAATTCCTCCTATCAGTTTCTTTCATTGCAGTTTTCTGAGTAC 400
AGGTCTTACACCTCCTTGGTTAGAGTCATTCCTCAGTATTTTATTCCTTTGATACAATTGTGAATGAGGTAATTTTCTTAGTTTCTCTTTCTGATAGCTC 500
ATTGTTAGTGTATATATAGAAAAGCAACAGATTTCTATGTATTAATTTTGTATCCTGCAACAGATTTCTATGTATTAATTTTGTATCCTGCTACTTTACG 600
GAATTCACTTATTAGCTTTTTGGTGACATCTTGAGGATTTTCTGAAGAAAATGGCATGGTATGGTAGGACAAGGTGTCATGTCATCTGCAAACAGTGGCA 700
GTTTTCCTTCTTCCCTTCCAACCTGGATTTCTTTGATTTCTTTCTGTCTGAGTACGACTAGGATTCCCAATACTATACCGAATAAAAGTGGCAAGAGTGG 800
ACATCCTTGTCTTATTTTTCTGACCTTAGAGGAAATGCTTTCAGTTTTTCACCATTAATTATAATGTTTACTGTGGGCTTGTCATATGTGGCCTTCATTA 900
TATGGAGGTCTATTCCCTCTATACCCACCTTGTTGAGAGTTTTTATCATAAAAGTATGTTGAATTTTGTCAAAAGTTTTTCCTGCATCTATTGAGATGAT 1000
TTTTACTCTTCAATTCATTAATGATTTTTATTCTTCATTTTGTTAATGATTTCCATTCTTCAATTTGTTAACGTGGTATATCACATTGATTGATTTGTGG 1100
ATACCTTTGTATCCCTGGGATAAACCTCACTTGATCATGAGCTTTCAATGTATTTTTGAATTCACTTTGCTAATATTCTGTTGGGTATTTTTGCATCTCT 1200
ATTCATCAATGATATTGGCCTAAGAAAGGTTTTGTCTGGTTTTAGTATCAGGGTGATGCTGGCCTCATAGAGAGAGTTTAGAAGCATTTCCTCCTCTTTG 1300
ATTTTTCGGAATAGTTTGAGTAGGATAGGTATTAACTCTTCTTTAAATGTTTGGGGACTTCCCTGGTGAGCCGGTGGTTGAGAATCCGCCTCAGGGATGT 1400
GGGTTTGATCCCTGGTCAGGGAACCATTAATAAGATCCCACATGCTGCAGGGCAACAAGCCCCCAAGCTGCAACCACTGAGCTGCAACCGCTGCAGTGCC 1500
CACAGGCCACGACCAGAGAAAGCCCACATACAGCAGGGAAGACCCAGCACAACCGGAAAAAGGAGTTTGGTGGAATACAGCTGTGAAGCCGTCTGGTCCT 1600
GGACTCCTGCTTGAGGGAATTTTTTAAAAATTATTGATTCAATTTCATTACTGGTAACTGGTCTGTTCATATTTTCTATTTCTTCCGGGTTCAGTCTTGG 1700
GAGATTGTACATGCCTAGGAATGTGTCCGTTTCTTCTAGGTTGTCCATTTTATTGGACATGCATGGGAGCACACAGCACCGACCAGCGAGACTCATGCTG 1800
GCTTCCTGGGGCCAGGGCTGGGGCCCCAAGCAGCATGGCATCCTAGAGTGTGTGAAAGCCCACTGACCCTGCCCAGCCCCACAATTTCATTCTGAGAAGT 1900
GATTCCTTGCTTCTGCACTTACAGGCCCAGGATCTGACCTGCTTCTGAGGAGCAGGGGTTTTGGCAGGACGGGGAGATGCTGAGAGCCGACGGGGGTCCA 2000
GGTCCCCTCCCAGGCCCCCCTGTCTGGGGCAGCCCTTGGGAAAGATTGCCCCAGTCTCCCTCCTACAGTGGTCAGTCCCAGCTGCCCCAGGCCAGAGCTG 2100
CTTTATTTCCGTCTCTCTCTCTGGATGGTATTCTCTGGAAGCTGAAGGTTCCTGGAAGTTATGAATAGCTTTGCCCTGAAGGGCATGGTTTGTGGTCACG 2200
GTTCACAGGAACTTGGGAGACCCTGCAGCTCAGACGTCCCGAGATTGGTGGCACCCAGATTTCCTAAGCTCGCTGGGGAACAGGGCGCTTGTTTCTCCCT 2300
GGCTGACCTCCCTCCTCCCTGCATCACCCAGTTCTGAAAGCAGAGCGGTGCTGGGGTCACAGCCTCTCGCATCTAACGCCGGTGTCCAAACCACCCGTGC 2400
TGGTGTTCGGGGGGCTACCTATGGGAAGGGCTTCTCACTGCAGTGGTGCCCCCCGTCCCCTCTGAGATCAGAAGTCCCAGTCCGGACGTCAAACAGGCC 2500
GAGCTCCCTCCAGAGGCTCCAGGGAGGGATCCTTGCCCCCCCGCTGCTGCCTCCAGCTCCTGGTGCCGCACCCTTGAGCCTGATCTTGTAGACGCCTCAG 2600
TCTAGTCTCTGCCTCCGTGTTCACACGCCTTCTCCCCATGTCCCCTCCGTGTCCCCGTTTTCTCTCACAAGGACACCGGACATTAGATTAGCCCCTGTTC 2700
CAGCCTCACCTGAACAGCTCACATCTGTAAAGACCTAGATTCCAAACAAGATTCCAACCTGAAGTTCCCGGTGGATGTGAGTTCTGGGGCGACATCCTTC 2800
AACCCCATCACAGCTTGCAGTTCATCGCAAAACATGGAACCTGGGGTTTATCGTAAAACCCAGGTTCTTCATGAAACACTGAGCTTCGAGGCTTGTTGCA 2900
AGAATTAAAGGTGCTAATACAGATCAGGGCAAGGACTGAAGCTGGCTAAGCCTCCTCTTTCCATCACAGGAAAGGGGGGCCTGGGGCGGCTGGAGGTCT 3000
GCTCCCGTGAGTGAGCTCTTTCCTGCTACAGTCACCAACAGTCTCTCTGGGAAGGAAACCAGAGGCCAGAGAGCAAGCCGGAGCTAGTTTAGGAGACCCC 3100

FIG.2 continued

TGAACCTCCACCCAAGATGCTGACCAGGCCAGCGGCCCCCTGGAAAGACCCTACAGTTCAGGGGGGAAGAGGGGCTGACCCGCCAGGTCCCTGCTATCA 3200
GGAGACATCCCCGCTATCAGGAGATTCCCCCACCTTGCTCCCGTTCCCCTATCCCAATACGCCCACCCCACCCCTGTGATGAGCAGTTTAGTCACTTAGA 3300
ATGTCAACTGAAGGCTTTTGCATCCCCTTTGCCAGAGGCACAAGGCACCCACAGCCTGCTGGGTACCGACGCCCATGTGGATTCAGCCAGGAGGCCTGTC 3400
CTGCACCCTCCCTGCTCGGGCCCCCTCTGTGCTCAGCAACACACCCAGCACCAGCATTCCCGCTGCTCCTGAGGTCTGCAGGCAGCTCGCTGTAGCCTGA 3500
GCGGTGTGGAGGGAAGTGTCCTGGGAGATTTAAAATGTGAGAGGCGGGAGGTGGGAGGTTGGGCCCTGTGGGCCTGCCCATCCCACGTGCCTGCATTAGC 3600
CCCAGTGCTGCTCAGCCGTGCCCCCGCCGCAGGGGTCAGGTCACTTTCCCGTCCTGGGGTTATTATGACTCTTGTCATTGCCATTGCCATTTTTGCTACC 3700
CTAACTGGGCAGCAGGTGCTTGCAGAGCCCTCGATACCGACCAGGTCCTCCCTCGGAGCTCGACCTGAACCCCATGTCACCCTTGCCCCAGCCTGCAGAG 3800
GGTGGGTGACTGCAGAGATCCCTTCACCCAAGGCCACGGTCACATGGTTTGGAGGAGCTGGTGCCCAAGGCAGAGGCCACCCTCCAGGACACACCTGTCC 3900
CCAGTGCTGGCTCTGACCTGTCCTTGTCTAAGAGGCTGACCCCGGAAGTGTTCCTGGCACTGGCAGCCAGCCTGGACCCAGAGTCCAGACACCCACCTGT 4000
GCCCCCGCTTCTGGGGTCTACCAGGAACCGTCTAGGCCCAGAGGGGGACTTCCTGCTTGGCCTTGGATGGAAGAAGGCCTCCTATTGTCCTCGTAGAGGA 4100
AGCCACCCCGGGGCCTGAGGATGAGCCAAGTGGGATTCCGGGAACCGCGTGGCTGGGGGCCCAGCCCGGGCTGGCTGGCCTGCATGCCTCCTGTATAAGG 4200
CCCCAAGCCTGCTGTCTCAGCCCTCCACTCCCTGCAGAGCTCAGAAGCACGACCCCAGGGATCCTGCCTAGCACTCTGACCTAGCAGTCAACATGAAGGC 4300
TCTCATTGTTCTGGGGCTTGTCCTCCTTTCTGTTACGGTCCAGGGCAAGGTCTTTGAAAGGTGTGAGTTGGCCAGAACTCTGAAAAGATTGGGAATGGAT 4400
GGCTACAGGGGAATCAGCCTAGCAAACTGTAAGTCTACTCTCCATAATTCCAGAGAATTAGCTACGTATGGAACAGACACTAGGAGAGAAGGAAGAAGAA 4500
GAAGGGGCTTTGAGTGAATAGATGTTTTATTTCTTTGTGGGTTTGTATACTTACAATGGCTAAAAACATCAGTTTGGTTCTTTATAACCAGAGATACCCG 4600
ATAAAGGAATACGGGCATGGCAGGGGAAAATTCCATTCTAAGTAAAACAGGACCTGTTGTACTGTTCTAGTGCTAGGAAGTTTGCTGGGTGCCTGAGATT 4700
CAATGGCACATGTAAGCTGACTGAAAGATACATTTGAGGACCTGGCAGAGCTCTCTCAAGTCCTTGGTATGTGACTCCAGTTATTTCCCATTTTGAACTT 4800
GGGCTCTGAGAGCCTAGAGTGATGCAGTATTTTTCTTGTCTTCAAGTCCCCTGCCGTGATGTGGGATTTTTATTTTTATTTTTATTTTATTTTATTTTAT 4900
TTTTAAAGACAGTCTCACTGTGTGGCCCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTCTGCCTTCTGGGCTCAAGTGATTCTCGTGCT 5000
TCAGCCTTCTGAGTAGCTGTGACTACAGGTGTGTACCACCACACCCAGCTAATTTTTTGTATTTTCAGTAGAGATGGGGTTTCACCATGTTGGCCAAGCT 5100
GGTCTTGAACTCCTGGCCTCAAATGATCTGCCCACCTCAGCCTCCCAAAGTGGTAGGATTACAGGTGTGAACCACTGCACCCAGCCGACATGGGATTTTT 5200
AACAGTGATGTTTTTAAAGAATATATTGAATTCCCTACACAAGAGCAGTAGGAACCTAGTTCCCTTCAGTCACTCTTTGTATAGGATCCCAGAAACTCAG 5300
CATGAAATGTTTTATTATTTTTATCTACTCTACTTGATTAACTATCTTTCATTTTCTCCCACACAATTCAAGATGTGCCATGAGGAAAAGTTATTTTATA 5400
GTTTAGTACATAGTTGTCGATGTAATAATCTCTGTAGTTTTCAGATTGAATTCAGACATTTCCCCTCAATAGCTATTTTTGAATGAATGAGTGAAGGGAT 5500
GAAATCACGGAATAGTCTTGTTTTCAAGATTCTAACTTGATATCCAAATTCACCTTTAGATATTATAAGAAAATTTCTATCAGAAAATCCTTATGTTTTT 5600
CTGATTAAAAAAAGCATTTTTCCATCAGCCTATGTATCTGCTATGAATTTACAAAATCTACTCAACAGCTCTGTTGATTTTTCTGTTCTTGGCTGAATGT 5700
TGCCTGAGGGATGGGAGCACGGGAAGGGTAAAAGCAATGGAAGAAACATGTATTTTAATATTTTAAAAGTATGTTATATTGTTCGTTGGTGTTACAAGAT 5800
GATTTGCATTACAAAAGGATTCTCTTACAAGTCCCTTATCTTAACACTAAAGTGCTAAGATATTTTATAAGTAAATCTTTATACTTATAAAACAAATCAG 5900
TAAAATAGAAGTAGCTAAGTAGAACTGATTTTGCTATAGAGTATAAGTCACTTAGTGTTGCTGTTTATTACTAAAAATAAGTTCTTTTCAGGGATGTGTT 6000
TGGCCAAATGGGAGAGTGGTTACAACACACGAGCTACAAACTACAATGCTGGAGACAGAAGCACTGATTATGGGATATTTCAGATCAATAGCCGCTACTG 6100
GTGTAATGATGGCAAAACCCCAGGAGCAGTTAATGCCTGTCATTTATCCTGCAGTGGTAAGACAAGCTAATATTTGACCAATCTGGTTATACTTACAAGA 6200

FIG.2 continued

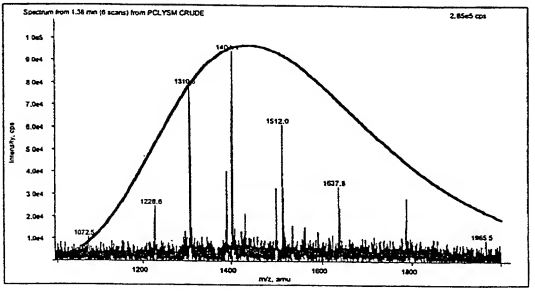
```
ATTGAGACTCAATACAAATGAAAAAGCCTTGAAAGGTTCATGAGGGACCTAGAAAACTACATCTCAACTTCCAGAAAGTCATTATTATTTTCCTCATAA  6300
TTCCCTGAGTAAGAATTTAAAGAAGTGGTATCATAAAAGGTTGATGTTTTTAATATACAGAAGTTCTGGAATGACCTATTAATTTACTGTCAATGGC  6400
CTTACTGATGCTTTGTCCAGAACAATGCCATTGCTCCTGCTTACTTTGGGGAGGTTTTGGGATAATTTAGTTGTATGGTCCTTTTTCAATTGTTTTACTT  6500
TTTTTTTTATGAAATGTTCTAAATGTATAGAAAATTAGAGACATTAGTATAATAAACAGCCATATGCCCATTATGCCACTTAAAAGTGTTAACATTTTG  6600
CCATAGTTGCTTCTTCTATGCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCTGAGAGTTTTTGTTGGTTTTGTTTTATTTTGAGACAGGGTCTCC  6700
TGTCCCCAGGCTGTAGTCAGTGGCACCATCACAGCTCACTGCAGCTCAAGTGATCATCCCACCACAGCCTCCCCAAGTAGCTGGGACTACAGGTGTGCACC  6800
ACCATGCCTGGCAAATTTTTGTAGTACAGGCAAATTCTGTGTTGCCCAGGCTGGTCTTGAACTCCTGAGTTCAAGCAATCTTCCCACCTCAGC  6900
CTCCTTAAGCTGCTGGAATTACAGGCGTTAGCACTGTACCTGGCTACTGCTGAGAGACTTTTAAGTGAATTAGGAACATGATGATATTCCATTTCTAAAT  7000
TCTTTAGTTTACATCTTCAAAAAATACAGTTCCTGTAGAATTATTATTGTAAATAACAAATTAACTTAAGGATTTATTTATTTGGAGTGAAACAAATATT  7100
TTACTGAACTCATAAAAATAGAAATACCATGTGGAATCCTCCAGTGTCAAAAATATTGCAGAAATCTTGCAAAGTTGATATTATTAAATATCATTA  7200
AAATTCCCAATAAAGAACATTAATCTATTTCTAAAATCCAGTTAATTAAAAAAATTTATATTATAATAATAATTTGGTCATTAAATAAAATTATGAAA  7300
ATACAAATAAGAAAAATAACACCCATAATCTTACTACCCAGAGGTTTATAACCATGGGTAAATTCTCCTCCAGAATGGTATATCAATCATG  7400
TGTATGAATGTTAAATTATATCATACACATATAAACCCACATACAAACATGTAAATACTGTGTGCTTTTGCAAAAATTAAATTGTATTATACACACGGCT  7500
TTACAATTTGCTCTTATCACACAAATTATTTGCATGTCAGCAAATACAACAATCGGTTTTTTAATGATCTTTTGCTCCATTTTCCAGATGAGAAAAAATA  7600
CAAATCTGTATCATCATTTTAAAAGAATGACTAGAATTTTCATATAATTCTATAATTTACTGATCCAATTGTTACTATTGAGCACTTAGGTTGTT  7700
TCCATTTTCCCTCATAAATTGCTATGAATAGCTTTTTGTATACATCTTGGGTGCATTTCTATTTCTTTGGATAAATTTTCAATAATAGAACTGCTG  7800
AGTAAAATATCACTAGTGTTTTTTACAGTGTCTAGTGCAAAGAAGACCTTTAATCATTTGTTAATACTTCCAGAGCTTCCAATGACTTTGGTAAATG  7900
AAGAAAAAAAATGCTTCATTTCATGCTGAATGGGAGAGAATGAAGAGAGTTTTCCCCAACAATTACACATATATGGACTCATAGAAAATAATATCTTACCA  8000
TTCTTTCCACAGCCTAACAGAAAAAAGCTGGCTAAACCTAAATTTAAAATATCTATTAAAGTTTTTATTCCTTCACACCTGTCTTTCAGCTTTGC  8100
TGCAAGATAACATCGCTGATGCTGTAGCTTGTGTCCAAGAGGGTTGTCCGTGATCCACAAGGCATTAGAGCATGGTATGTTTTAAGTGTTAAAAGGGAAAA  8200
CTATCTTACTCTACTGTTGATATATACAATGAGAGCAGACTTTTTAAAGACCAAAGTATGCTAATGACACCTCAAAATTGCAGCTTTTGGCTTATGCTAAA  8300
TGATGTATTACCTACATCCTTGAAGAAACAATCTACTTTAACTGATCCAGAATCTTACTCCTCAATTTATTTTAGGGGATTTCTAGAGTTTT  8400
AAGATGCTTCACACTCTATCAGTTCCTTGTCATATCTGAAATTCTTTTAGAATAAGTAAGTGTGGGCCGGGCACAGTGCTCACGCCTGTAATCCCAGC  8500
ACTTTGGGAGACCGAGGCAGATGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGCCTAACATGGCAAAACCCCATCTCCACTAAAAATACAAAAAT  8600
TAGCTGGGTGTGGTGGCAGGTGCCTGTAATCCCAGCCACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCGGGAGGTGGAGGTTGCAGAGCATTGCGC  8700
CATTGTACTTCAGCCTGGGCGACAGAGTGAGACTCTGTCTCAAATAAATAGCATAAAAATAAACGTGGAATTCACTTTGCAGTTGCTGCTGTACAACGC  8800
ACATTACTCAATCTTATTGTCGGCATTCTGACTGCAGAAATTTGGGTAGGAGTGAAGTATTTTGTATACATATCTCATTTAAATAAGCAAAT  8900
AGCTGGGTCTATCCTACTATTTTATCTATTGATAAAATATTTGTTGTTCCCCAAGGAGTGCGAAGTATGTATATTACAATGAAGATATGTTTAACCTTTC  9000
ACCATTTGCTTCATCTTTTTCTACAGGGTGGCATGGAGAAATCGTTGTCAAAACAGAGATGTCCGTCAGTATGTTCAAGGTTGTGGAGTGCTCGAGGGAG  9100
GAGGAGGAAGCGGAGGCGGCGGCAGCGGAGGCGAGGCGCTAGCATGTGCTCCAACCTGTCCACCTGCGTGCTGGGCAAGCTGAGCCAGGAGCTGCA  9200
```

FIG.2 continued

```
CAAGCTGCAGACCTACCCTAGGACCAACACCGGCAGCGGCACCCCTGGATAATCGATAAGCTTGGATCCCCTGCCGGTGCCTCTGGGGTAAGCTGCCTGC   9300
CCTGCCCCACGTCCTGGGCACACACATGGGGTAGGGGGTCTTGGTGGGGCCTGGGACCCCACATCAGGCCCTGGGGTCCCCCCGTGAGAATGGCTGGAA   9400
GCTGGGGTCCCCTCCTGCCACTGCAGACCTGGCTGGCCGCGTGCCCACTCTTGTGGGGTGACCTGTGTCCTGCCCTCACACACTGACCTCCTCCAGCTCC   9500
TTCCAGGCAGAGCTAAGGGCTAAGGTGGAGGCCAGGAATGGGTACCTAAGGGGGAGGCTAGGCGGTCCTTCTCCCGAGGAGGGCTGTCCTGAACCA   9600
CCAGCCATGGAGAGGCTGGCAAGGTCTGGCAGGTGCCCCAGGAATCACAGGGGGCCCCATGTCCATTTCAGGGCCCGGGAGCCTTGGCTCCTCTGGGG   9700
ACAGACGACTCACCACGCCCCCCCCCATCAGGGGACTAGAAGGGACCAGGACTGCAGTCACCTCCTGGGACCCAGGCCCTCCAGGCCCTCCT   9800
GGGGCTCCTGCTGTGGCAGCTTCTCCTTCACCAATAAAGGCATAAACCTGTGCTCTCCTCTTCTGAGTCTTTGCTGACGACGGGCAGGGGTGGAGAAG   9900
TGGTGGGGAGGGAGTCTGGCTCAGAGGATGACAGCGGGGCTGGCATCCAGGGCGTCTGCATCACAGTCTTGTGACAACTGGGGGCCCACACATCACTG   10000
CGGCTCTTTGAAACTTTCAGGAACCAGGGAGGGACTCGGCAGACATCTGCCAGTTCACTTGGAGTGTTCAGTCAACACCCAAACTCGACAAAGGACAG   10100
AAAGTGCAAAATGGCGTGTCTCTTAGTCTAATAAATATTGATATGAAAACTCAAGTTGCTCATGGATCAAATTATGCCCTTTTATGAATCCAGCCACTACT   10200
GTCGGTATCAAACTTCATGTACCCAAAACGCACTGATCTTTTCTGTGCTAAAATGAAATAAAGAGATTTCCCCAAGATAGAGGAGCTGGGCAAAAGAGGT   10300
CACAGTTGGAAGGAGACTTGTTCTGCACACAGCAAGGAGATCCAACCAGTTCATCCTAAAGGAGATCAGTCCTGGGTGTTCATTGGAGGGACTGATGT   10400
TGAAGCTGAAACTCCAATGCTTTGGCCACCTGATGTGAAGAGCTGACTCATTTGAAAAGACCCTGATGCTGGGAAAGATTGAGGGCAGGAGGAGGAAGGGG   10500
ACGACAGAGGATGAGATGGTTGGATGGCATCACCAACAATGGCATTGGGTTGGGTGACCCAGGAGTTGGTGATGGACAGGGAGGCCTGGCGTGCT   10600
GCGGTTTATGGGGTCACAAAGACTGAGTGACTGAACTGAATGCTGAAATGAGGTATACAGCAAAGTGGGGATTTTTTAGATAATAAGAATAT   10700
ACACATAACATAGTGTATACTCATATTTTTATGCATACCTGAATGCTCAGTCACTCATGTATCTGACTCTGTGACCGTAGCCTTCCAGGT   10800
TTCTTCTGTCCACAGAATTCTCCAGGCAAGAATACTGGAGTGGGTAGCCATTTCCTCCACGGGGATCCCTCCCGACCAGGGATTGAACCGGCATCTCC   10900
TGTATTGGCAGGTGGATTCTTTACCACTGTGCCACCAGGGAAGCCCGTGTTACTCTCTATGTCCCACTTAATTACCAAAGCTGCTCCAAGAAAAAGCCCC   11000
TGTGCCTCTGAGCTTCCCGGCCTGCAGAGGTGTGGGGGTAGACTGTGACCTGGGAACACCCTCCCGCTTCAGGACTCCCGGGCCACGTGACCCACAGT   11100
CCTGCAGACAGCCGGGTAGCTCTGCTCTTCAAGGCTCATTATCTTTAAAAAAACTGAGGTCTATTTTGTGACTTCGCTGCCGTAACTTCTGAACATCCA   11200
GTGCGATGGACAGCCTCCTCCCCAGGCCTCAGGGCTTCAGGGAGCCAGCCTTCACCTATGAGTCACCAGACACTCGGGGGTGGCCCCCGCCTTCAGGGTG   11300
CTCACAGTCTTCCCATCGTCCTGATCAAAGACGAACCAATGACTTCTTAGGAGCAAGCAGACACCCACAGGACACTGAGGTTCACCAGACTGAGCTGT   11400
CCTTTTGAACCTAAAGACACACAGCTCTCGAAGGTTTTCTCTTTAATCTGGATTTAAGGCCTACTTGCCCCTCAAGAGGGAAGACAGTCCTGCATGCTCCC   11500
CAGGACAGCCACTCGGTGGCATCCGAGGCCACTTAGTATTATCTGACCGCACCCTGGAATTAATCGGTCCAAACTGGACAAAAACCTTGGTGGGAAGTTT   11600
CATCCCAGAGGCTCAACCATCGCTTTGACCACCCTGCATCTTTTTTCTTTATGTGTATCAGTCTATATATATATATATTTTTTTTTTTTTCATT   11700
TTTTGGCTGTGCTGGCTGTTCGTTGCAGTTCGGTCGCCAGGCTTTTCTCTCTAGTTCTCTCTATTCACAGAGCAGTCTCTAGACGATCGA   11800
CGCGTTCAGCCTAAAGCTTTTTTCCCGTATCCCCCCAGGTGTCTGCAGGCTCAAAGAGCAGCGAGAAGCGTTCAGAGGAAAGCGATCCCGTGCCACCTT   11900
CCCCGTGCCCGGCTGTCCCCGCAGCTGCGGCGATGCGGGGGAGCGCCGGACCGGACGCCCCGGGCGGCTCGCTGCTGCCCTAGCGGGG   12000
GAGGGACGTAATTACATCCCTGGGGGCTTTGGGGGGGGCTGTCCCTGCGCGCTCGCGAATTC 12061
```

FIG.3.

milk


Spectrum from 1.36 min (6 scans) from PCLYSM CRUDE
2.85e5 cps
Intensity, cps
1 0e5
9 0e4
8 0e4
7.0e4
6.0e4
5 0e4
4.0e4
3 0e4
2.0e4
1.0e4
1512.9
1637.8
1228.6
1072.5
1965.5
1200
1400
1600
1800
m/z, amu

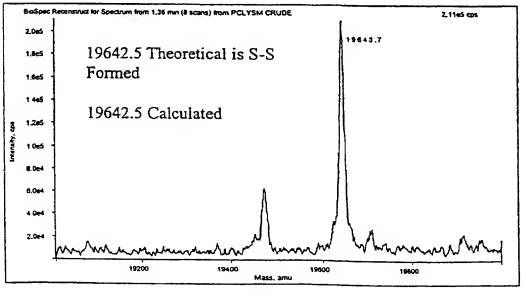

BioSpec Reconstruct for Spectrum from 1.36 min (6 scans) from PCLYSM CRUDE
2.11e5 cps
19643.7
19642.5 Theoretical is S-S Formed
19642.5 Calculated
Intensity, cps
2.0e5
1.8e5
1.6e5
1.4e5
1.2e5
1.0e5
8.0e4
6.0e4
4.0e4
2.0e4
19200
19400
19600
19800
Mass, amu

FIG.4.

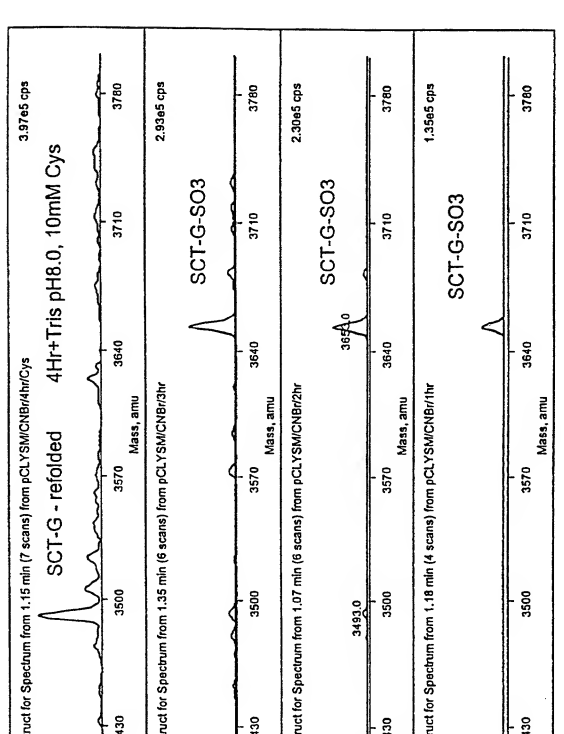

BioSpec Reconstruct for Spectrum from 1.15 min (7 scans) from pCLYSM/CNBr/4hr/Cys
3.97e5 cps
SCT-G - refolded
4Hr+Tris pH8.0, 10mM Cys
Intensity, cps
3e5
2e5
1e5
3430
3500
3570
3640
3710
3780
Mass, amu
BioSpec Reconstruct for Spectrum from 1.35 min (6 scans) from pCLYSM/CNBr/3hr
2.93e5 cps
SCT-G-SO3
BioSpec Reconstruct for Spectrum from 1.07 min (6 scans) from pCLYSM/CNBr/2hr
2.30e5 cps
SCT-G-SO3
3493.0
3641.0
BioSpec Reconstruct for Spectrum from 1.18 min (4 scans) from pCLYSM/CNBr/1hr
1.35e5 cps
SCT-G-SO3

FIG.5.

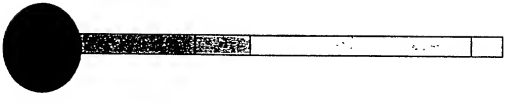


FIG.6.

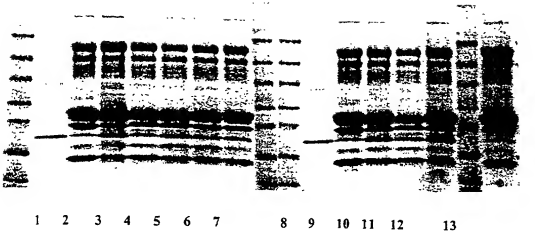


FIG.7

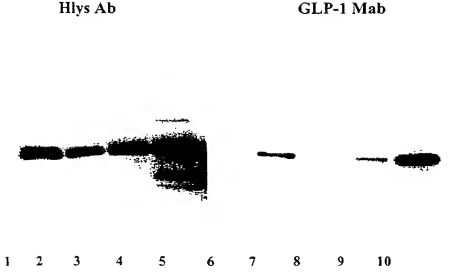
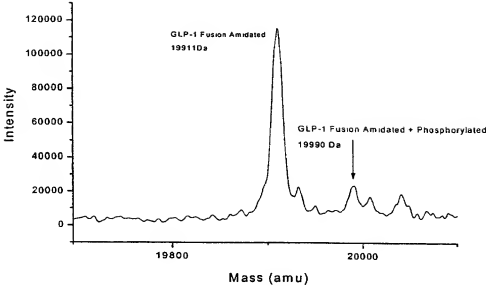


FIG.8.

8A


GLP-1 Fusion Amidated
19911Da
GLP-1 Fusion Amidated + Phosphorylated
19990 Da
Intensity
120000
100000
80000
60000
40000
20000
0
19800
20000
Mass (amu)

8B

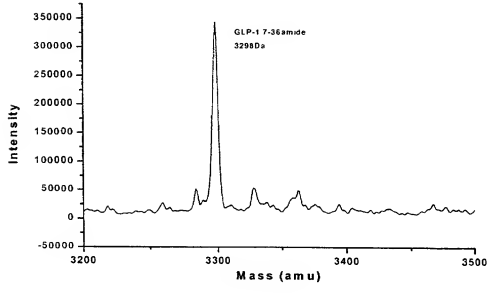

GLP-1 7-36amide
3298Da
Intensity
350000
300000
250000
200000
150000
100000
50000
0
-50000
3200
3300
3400
3500
Mass (amu)

FIG.9

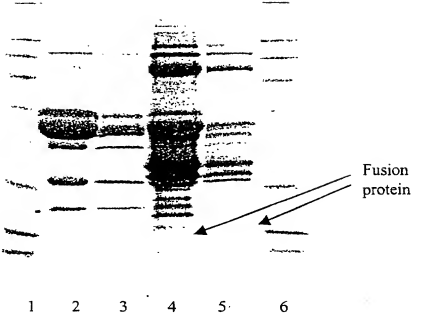


FIG.10